

US007656675B2

(12) United States Patent Kim et al.

(10) Patent No.: US 7,656,675 B2 (45) Date of Patent: *Feb. 2, 2010

(54) MOBILE TERMINAL

(75) Inventors: Jong-Hun Kim, Seoul (KR); Min-Ho

Park, Seoul (KR)

(73) Assignee: LG Electronics Inc., Seoul (KR)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 12/350,891

(22) Filed: Jan. 8, 2009

(65) **Prior Publication Data**

US 2009/0116202 A1 May 7, 2009

Related U.S. Application Data

(63) Continuation of application No. 11/777,131, filed on Jul. 12, 2007, now Pat. No. 7,492,602.

(30) Foreign Application Priority Data

Jul. 14, 2006	(KR)	 10-2006-0066575
Jul. 27, 2006	(KR)	 10-2006-0071042

(51) Int. Cl. H05K 5/00

(2006.01)

455/347; 174/50, 520; 345/173, 156 See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

5,749,457			Castaneda et al 200/343
6,128,515	A *	10/2000	Kabler et al 455/566
6,148,183	A *	11/2000	Higdon et al 455/575.1
6,747,224	B1	6/2004	Jenks et al.
6,760,074	B1	7/2004	Maruyama et al.
6,914,773	B2 *	7/2005	Yang et al
7,492,602	B2 *	2/2009	Kim et al 361/752
2004/0042160	A1	3/2004	Yang et al.
2004/0046739	A1*	3/2004	Gettemy 345/158

FOREIGN PATENT DOCUMENTS

EP	1 471 716 A2	10/2004
EP	1 544 714 A2	6/2005
EP	1 603 308 A1	12/2005
GB	2 330 980 A	5/1999

^{*} cited by examiner

Primary Examiner—Dameon E Levi (74) Attorney, Agent, or Firm—Birch, Stewart, Kolasch & Birch, LLP

(57) ABSTRACT

A mobile terminal includes a frame having a front side and a rear side, the rear side having a first receiving space and a second receiving space located beside one another, a front cover disposed to at least partially cover the front side of the frame, the front cover having a transparent portion, a touch screen located between the front cover and the frame, the touch screen permitting transmission of a signal when the transparent portion is contacted, a camera located in one of the first and second receiving spaces, and a rear cover disposed to at least partially cover each of the first and second receiving spaces.

16 Claims, 9 Drawing Sheets



